HFPrints, Customized reporter products.

It often happens that one is looking for special products for example reportage connections from a motorbike, or a complete relay station for an aircraft. HFPrints can completely fabricate these systems custom made for you.

19 "rack systems.
The 19 "rack systems are flexible in use. The modules are 8 or 10 TE wide, and because the pinning configuration and antenna connector are identical interchangeable. (except for the diversity receivers)

For use in airplanes or helicopters whith a board voltage of 28V may have HFPrints the connection print mounted behind each plug a 12.5V DCDC converter.
If the 19 "rack is used in a car, is can be fed through a 12.5V 10A power supply.

(photo: rack with 230V power supply. 1x talkback and 6x thru diversity broadband receiver.)

The configuration can be determined in consultation.

For example, you can make two repeaters (including return and intercom) in one plane so therefore configured rack.

2x broadband channel,		16 TE
2x talkback channel,		16 TE
1x talkback receiver	4 times	8 TE
2x wideband receiver		20 TE
1x technical intercom (RX + TX)	8 TE	
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		68 TE

Or a triple broadband repeater with 2x return (or return 1x and 1x intercom)

3x broadband channel,		24 TE
2x talkback channel,		16 TE
1x talkback receiver	4 times	8 TE
3x broadband receiver		30 TE
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		78 TE

For in the car, power 230V and receive 4x broadband signal and talkback

Power supply	10 TE
4x talkback channel,	32 TE (and if necessary. 1x intercom)
4x wideband receiver	40 TE
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	82 TE

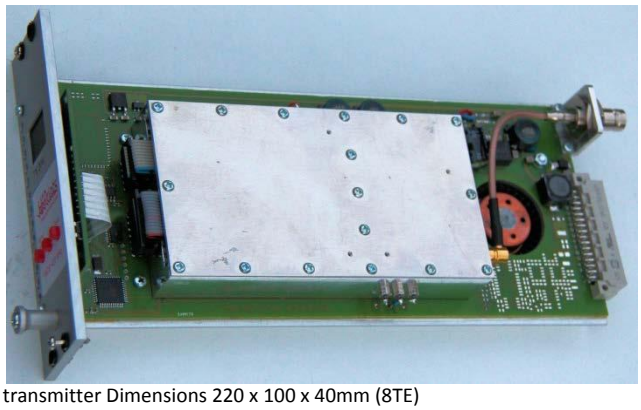
Photo right: Helicopter with communication rack. (Dutchview)

We can make various configurations with 19 "rack system.
Experience has shown that a RF power of 5 to 7 watts from a plane or helicopter is enough to reach the ground-station up to 100km distance.

Transmitter modules.

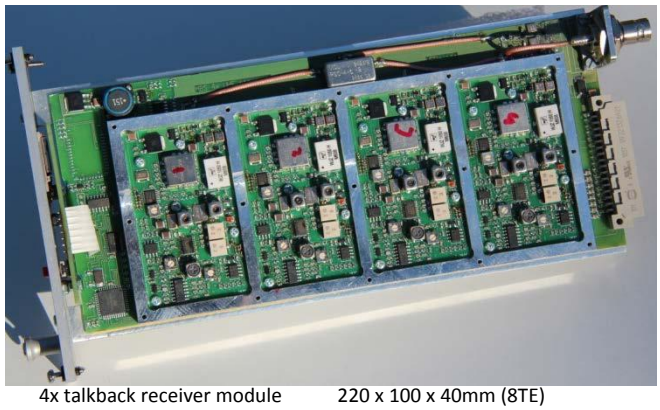
The transmitter modules have their own cooling and, if necessary, their own audio circuit. Both stations have the option of external audio in (line) or internal audio (repeater mode)

The transmitter is suitable for 24/7 using. Optional for the UHF version a receiver so that a mobilofone is created.



transmitter Dimensions 220 x 100 x 40mm (8TE)

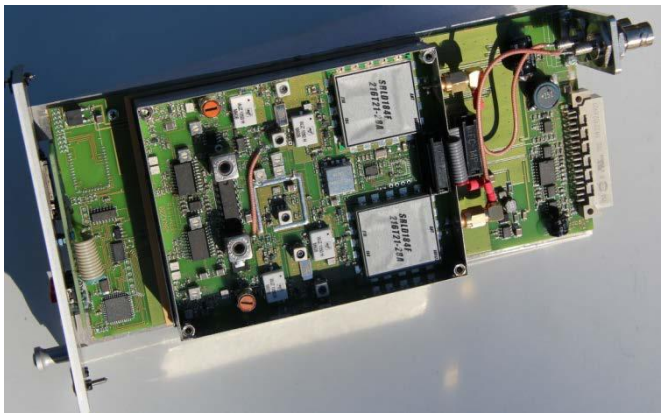
high power transmitter (15 watts) 50mm wide (10 TE)



4x talkback receiver module 220 x 100 x 40mm (8TE)

Receiver modules:

The receiver modules are divided into narrowband UHF receivers and broadband receivers. The narrowband receiver unit has four independently receivers. Thus, one unit can receive 4 different narrowband signals. Because the antenna input filtered by SAW filters, the receiver is selective. Switching bandwidth 15 MHz.



The broadband receiver diversity and has a tuning range of 174-240 MHz. Both receivers have a high dynamic range,

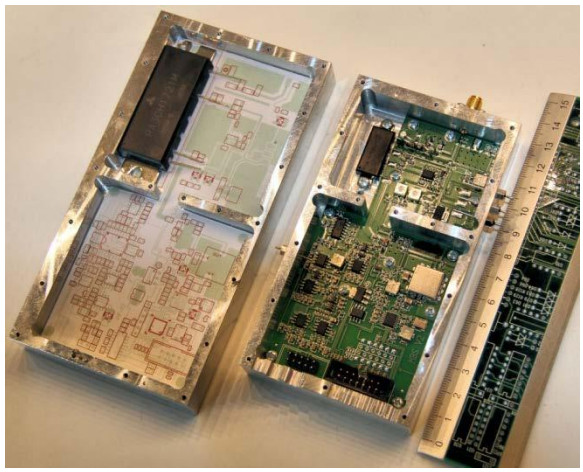
- third order intermodulation distance typical 80 dB. Since the broadband receiver switch his spectrum into a low and high band, it is possible to make duplex.

broadband unit 50mm wide (10 TE)

Audio unit: because the rack is assembled as desired, it is possible for an audio unit, composed as desired. If you have ideas, please contact us and we find the possibilities.

But HFPrints make more. We also make transmitters for use into motorbikes. The modules can be implemented into your choice of a case and function.

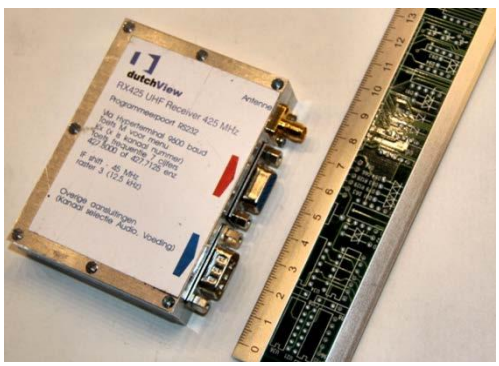
The VRT used for years transmitter modules HFPrints on their engines. The NOS (Ericsson) uses since 2014 transmitter modules on the motors. At the photo you see the small and bigger transmitter module without heat sink.



The RF power is to a maximum of 5 or 15 watts.

Dimensions of the module:	5 Watt max	130 x 70 x 21mm
(without cooling)	15 Watt max	150 x 80 x 22mm

Power 12 – 15V



Receiving modules.

Also HFPrints make small receiver modules for talkback etc. The receiver works on the VHF band (155 – 174 MHz or 415 – 430 MHz UHF.
(for 440 – 470MHz, call us)

The receiver has a good dynamic range and sensitivity.

Dimensions 90 x 75 x 19 mm.

Reprogramming with any terminal program at 9600 baud.

Pricelist for the HFPrints 19”racksystems International.

Transmitters	**freq. range**		**low-high power**	**frequency step for PLL**		**price**
narrowband	415 – 430	440 – 470	1 – 5 Watt	12,5 kHz channelspacing	8 TE	€ 1500,00
narrowband	415 – 430	440 – 470	2 – 15 Watt	12,5 kHz channelspacing	10 TE	€ 1750,00
narrowband	150 – 174		1 – 5 Watt	12,5 or 20 kHz channelspacing	8 TE	€ 1500,00
narrowband	146 – 174		2 – 15 Watt	12,5 or 20 kHz channelspacing	10 TE	€ 1750,00
Broadband	174 – 190		1 – 5 Watt	25 kHz channelspacing/step	8 TE	€ 1600,00
Broadband	200 – 230 (240)		1 – 5 Watt	25 kHz channelspacing/step	8 TE	€ 1650,00
Broadband	174 – 230		2 – 15 Watt	25 kHz channelspacing/step	10TE	€ 1800,00
Mobilofone	**(RX and TX)**					
narrowband	415 – 430	440 – 470	1 – 5 Watt	12,5 kHz channelspacing	8 TE	€ 1800,00
Smalband	150 – 174		1 – 5 Watt	12,5 or 20 kHz channelspacing	8 TE	€ 1800,00

(mobilofone is the same as the transmitter, but with a receiver on board.)

Receiver module Narrowband

4x UHF	415 – 430 of	440 / 455	455 / 470	12,5 kHz channelspacing	8 TE	€ 1900,00
4x VHF	150 – 174			12,5 or 20 kHz channelspacing	8 TE	€ 1900,00

Receiver module Broadband

Diversity	175 – 195 and	202 – 230 (240)		25 kHz channelspacing	10 TE	€ 1900,00
Power Supply	EA800- 150	12,5V	10A		10 TE	€ 300,00 **1
Rack	appropriate for a 230V powersupply and 8 modules custom made RF dividers for receivers, ferrite and audio / RF connections.			target price	84 TE	€ 2500,00
Rack	included for each module a 28V to 12,5V DCDC converter, 8 to 10 modules			target	84 TE	€ 3000,00

Separate receiver (for motor etc.) dimensions 90 x 70 x 19mm Weight 220g

VHF 2,5 kHz raster	€ 800,00
UHF 12,5 kHz raster	€ 800,00

Separate broadband transmitter module for use in motor etc. we can built it on your specification. Price is targetprice

Broadband	200 – 230 (240)	1 – 5 Watt	25 kHz channelspacing/step	8 TE	€ 1650,00
Broadband	174 – 230	2 -15 Watt	25 kHz channelspacing/step	10TE	€ 1800,00

Broadband is 15 kHz audio, deviation 40 - 50 kHz and with standard hidyn. IF bandwith 180 kHz
narrowband is 3 kHz audio, deviation 3 kHz or on your specification